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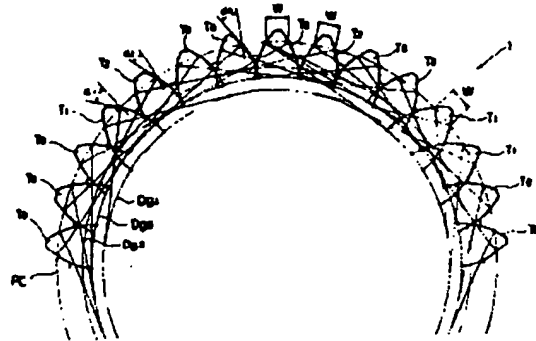
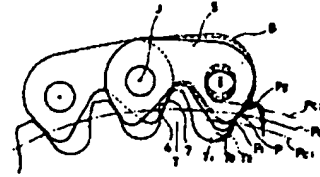
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TITLE : SPROCKET FOR SILENT CHAIN



ABSTRACT : PURPOSE: To prevent discordant sounds, noises from occurring by a method wherein tooth parts different in a pressure angle are arranged at random on sprockets for interlocking with a so-called silent chain made by overlapping and connecting toothed link plates.

CONSTITUTION: Tooth parts T_1 , T_2 which are drawn from a circle Dg_1 smaller, a circle Dg_2 larger than a base circle are mixed at random with the 1st tooth part to where its flank 7 comes in contact with a sprocket 1 on a datum engaging circle PC. On the PC circle, the pressure angle is large on T_1 and small on T_2 . When the chain is being wound, the engaging points vary up and down and the bending angle of the chain changes and the engaging time varies. Since the engaging time becomes irregular, periodical sounds and resonance sounds are restrained, and additional tension is prevented from occurring, the life can be prolonged and the safety can be improved.

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